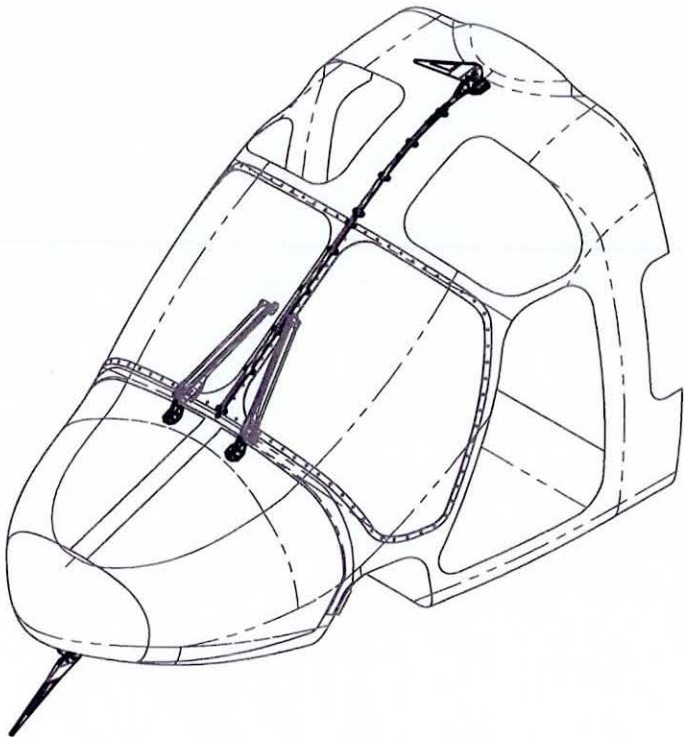
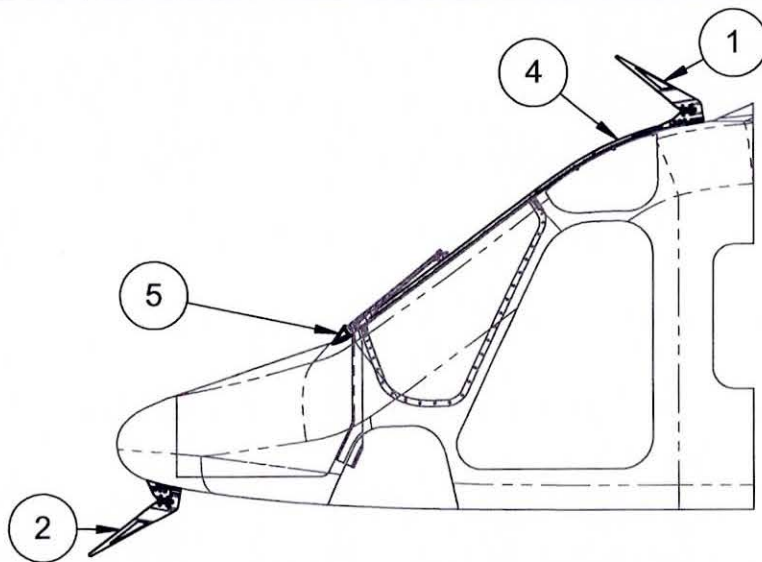


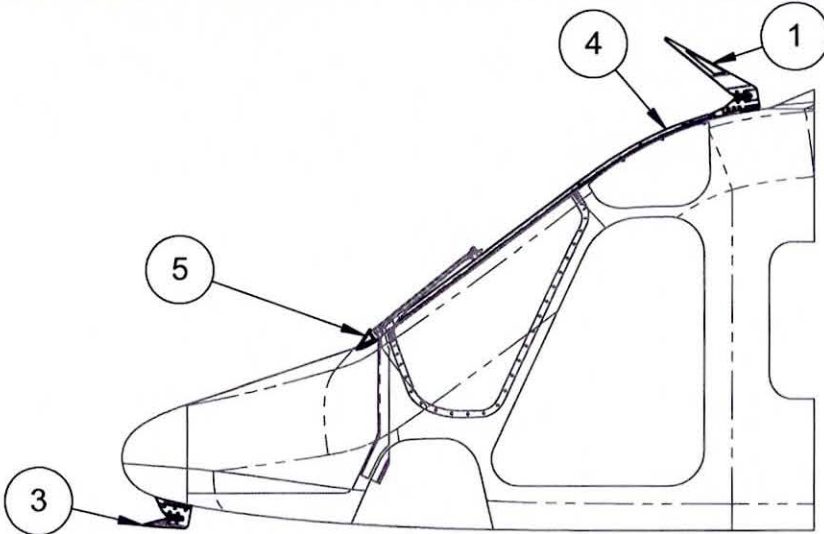
| ITEM | QTY -011 | QTY -013 | DART P/N | TAI P/N | DESCRIPTION |
|------|-------------|-------------|----------------------------|----------------|--|
| | X | | DTAI-1038-011 | RC95T400100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER |
| | | X | DTAI-1038-013 | RC95T401100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER |
| 1 | 1 | 1 | DTAI-1038-041 | RC95T400140VN | UPPER CUTTER KIT |
| 2 | 1 | - | DTAI-1038-043 | RC95T400240VN | LOWER CUTTER KIT, LONG |
| 3 | - | 1 | DTAI-1038-045 | RC95T402240VN | LOWER CUTTER KIT, SHORT |
| 4 | 1 | 1 | DTAI-1038-047 | RC95T400510VN | WINDSHIELD DEFLECTOR KIT, UPPER |
| 5 | 1 | 1 | DTAI-1038-049 | N/A | WINDSHIELD WIPER POST DEFLECTOR KIT |
| 6 | 1 | 1 | DTAI-1038-051 | RC95T400530VN | WINDSHIELD DEFLECTOR KIT, MID |
| 7 | 1 | 1 | DTAI-1038-053 | RC95T400540VN | WINDSHIELD DEFLECTOR KIT, LOWER |
| 8 | 12 | 12 | NAS1133E11P | N/A | SCREW, MACHINE-PAN HEAD, OFFSET CRUCIFORM |
| 9 | 8 | 8 | NAS1133V7A | N/A | SCREW, MACHINE-PAN HEAD, OFFSET CRUCIFORM |
| 10 | 8 | 8 | NAS1134V10A | N/A | SCREW, MACHINE PAN-HEAD, OFFSET CRUCIFORM |
| 11 | 8 | 8 | NAS1134V13A | N/A | SCREW, MACHINE PAN-HEAD, OFFSET CRUCIFORM |
| 12 | 2 | 2 | NAS1134VXXA OR MS27039C4-X | N/A | SCREW, MACHINE PAN-HEAD, OFFSET CRUCIFORM |
| 13 | 10 | 10 | NAS1993C18PT | N/A | BOLT, FLAT, 100° REDUCED HEAD, OFFSET CRUCIFORM |
| 14 | 50 | 50 | NAS1149C0332R | N/A | WASHER |
| 15 | 34 | 34 | NAS1149C0432R | N/A | WASHER |
| 16 | 30 | 30 | MS21042L3 | N/A | NUT, SELF-LOCKING |
| 17 | 16 | 16 | MS21042L4 | N/A | NUT, SELF-LOCKING |



CABLE CUTTER SYSTEM INSTALLATION KIT
(DTAI-1038-011 SHOWN, DTAI-1038-013 SIMILAR)



DTAI-1038-011 CABLE CUTTER SYSTEM INSTALLATION KIT



DTAI-1038-013 CABLE CUTTER SYSTEM INSTALLATION KIT

| INSTALLATION | WEIGHT | LATERAL | | LONGITUDINAL | |
|---|---------------------|-----------------|-----------------------|----------------------|-------------------------|
| | | ARM | MOMENT | ARM | MOMENT |
| DTAI-1038-011 CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER | 15.3 lbs 6.93 kg | 0.0 in 0.0 m | 0.0 in-lb 0.0 m-kg | +80.67 in +2.05 m | 1234 in-lb 14.2 m-kg |
| DTAI-1038-013 CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER | 13.3 lbs 6.02 kg | 0.0 in 0.0 m | 0.0 in-lb 0.0 m-kg | +89.05 in +2.26 m | 1184 in-lb 13.6 m-kg |

NOTES:

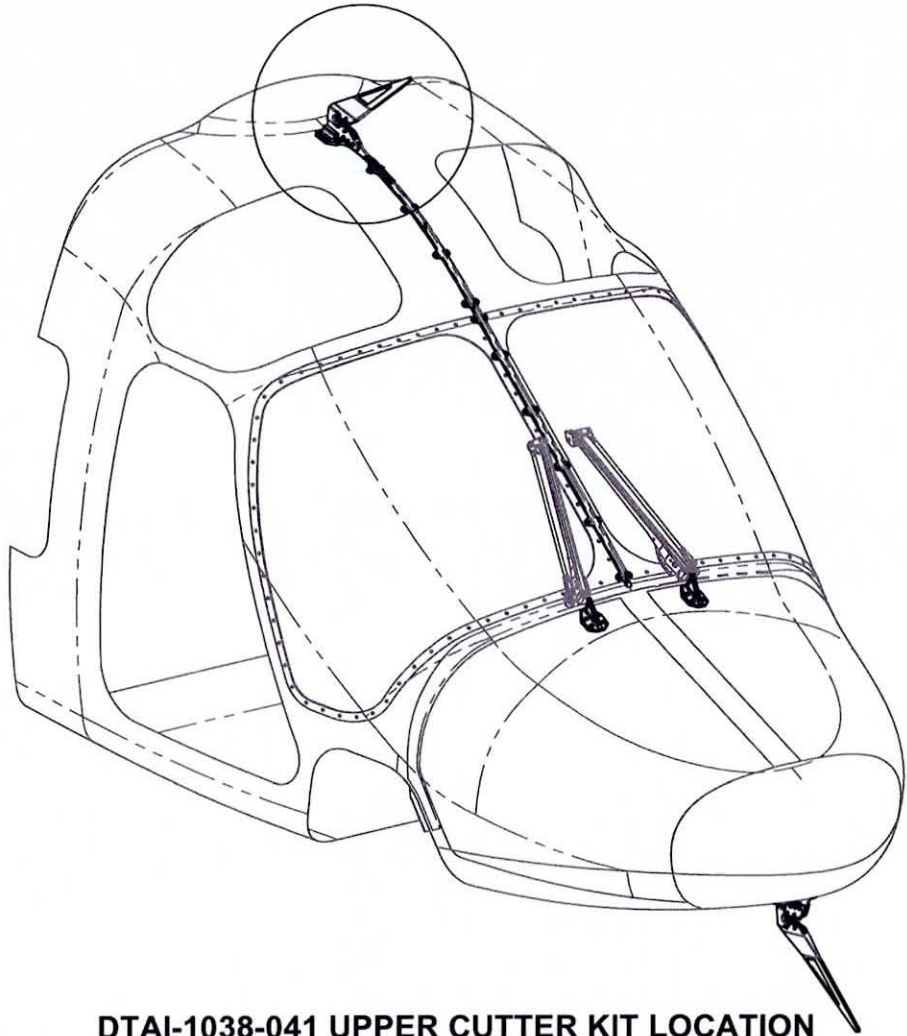
- COMPONENTS ARE PROVIDED PRIMED ONLY.
- COMPONENTS INSTALL TO TAI TLUH STRUCTURE.
- MAINTAIN IN ACCORDANCE WITH INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-DTAI-1038.
- PR-1425 CLASS B SEALANT OR EQUIVALENT MAY BE USED AS A LIQUID SHIM TO FILL GAPS BETWEEN HELICOPTER FUSELAGE AND CABLE CUTTER COMPONENTS.
- FASTENER HARDWARE SUPPLIED BY TAI (FASTENERS SHOWN AS REFERENCE ONLY). DASH NUMBER OF "XX" SCREWS TO BE DETERMINED AT INSTALL TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY. LONGER OR SHORTER FASTENERS MAY BE USED TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY.

UNDER REVIEW
ECR 493

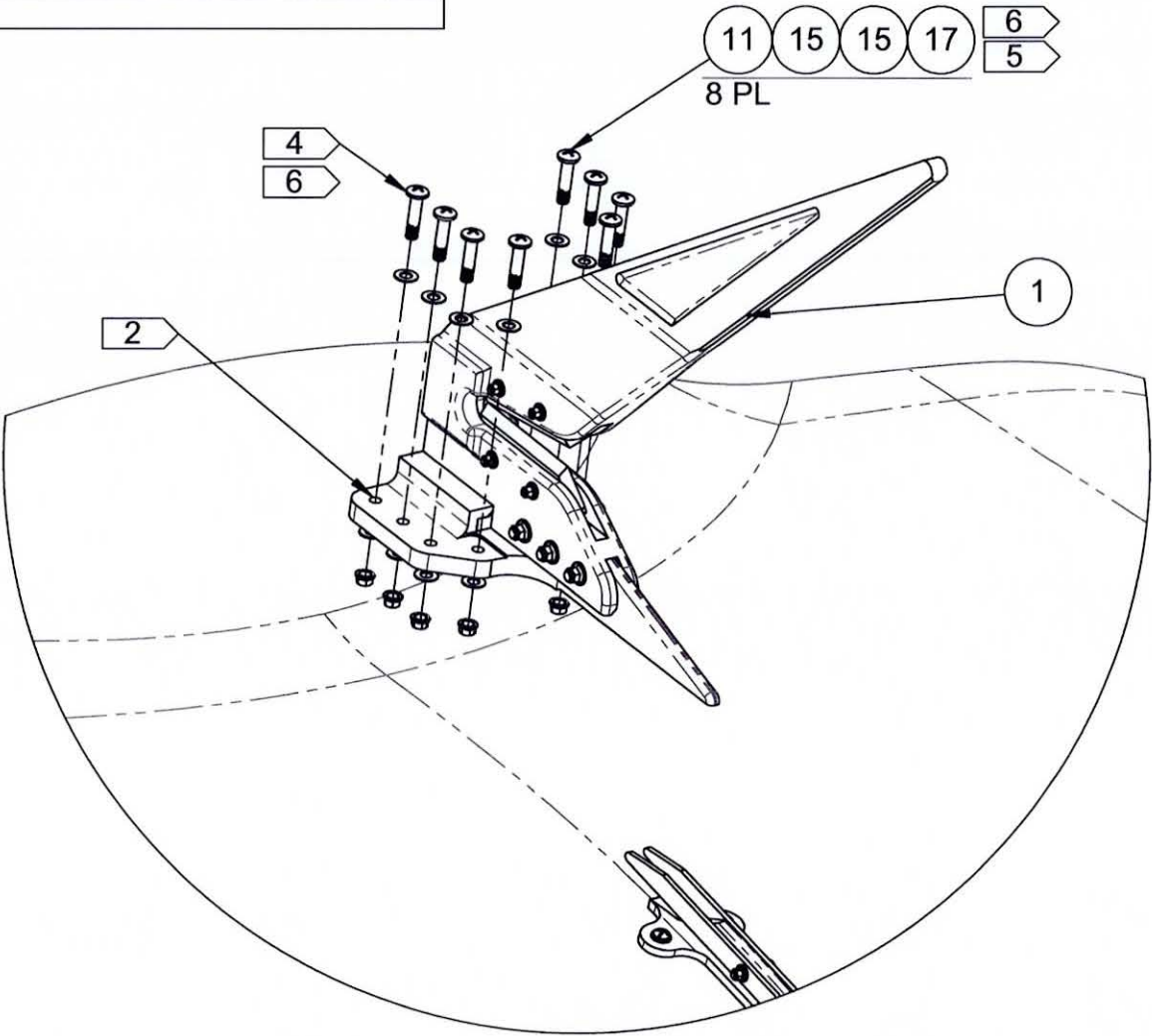
APPROVED

| | | | |
|------------|---|---|----------|
| D | REVISED TAI P/N'S: RC95T400530VN WAS RC95T400340VN & RC95T400540VN WAS RC95T400310VN | RF | 23.03.15 |
| C | SHT1 & SHT4: BOM ADD -051/-053 KIT, CHG TAI P/N -047 KIT, ADD NAS1134VXXA & UPD FASTENER QTY; SHT1: REV W&B VALUES & SIG FIGS, ADD NOTE 5, SHT2/3/6: ADD NOTE 10; SHT4: REV NOTES FOR SLOTS & ELEC BOND (INCORP DSI 9898), FIGS MOV TO SHT 5 (INS), ADD DETAIL B, CHG TORQUE TO MATCH OTHER KITS. REASON ECR 466. | RF | 23.02.21 |
| B | SHT1-5: BOM TAI PN UPDATED; SHT4-5: ADD ELEC BONDING | CP | 20.08.17 |
| A | NEW ISSUE | JMH | 18.07.27 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | JMH | DART AEROSPACE HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | SAD | DRAWING NO. REV. D | |
| MFG. APPR. | JFS | IIN-DTAI-1038 SHEET 1 OF 6 | |
| APPROVED | CP | TITLE SCALE | |
| DE APPR. | CP | TLUH CABLE CUTTER SYSTEM NTS | |
| DATE | 23.03.15 | COPYRIGHT © 2018 BY DART AEROSPACE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE | |

| ITEM | QTY -011 | QTY -013 | DART P/N | TAI P/N | DESCRIPTION |
|------|-------------|-------------|---------------|----------------|--|
| | X | | DTAI-1038-011 | RC95T400100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER |
| | | X | DTAI-1038-013 | RC95T401100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER |
| 1 | 1 | 1 | DTAI-1038-041 | RC95T400140VN | UPPER CUTTER KIT |
| 11 | 8 | 8 | NAS1134V13A | N/A | SCREW, MACHINE PAN-HEAD, OFFSET CRUCIFORM |
| 15 | 16 | 16 | NAS1149C0432R | N/A | WASHER |
| 17 | 8 | 8 | MS21042L4 | N/A | NUT, SELF-LOCKING |



DTAI-1038-041 UPPER CUTTER KIT LOCATION



DTAI-1038-041 EXPLODED ASSEMBLY VIEW

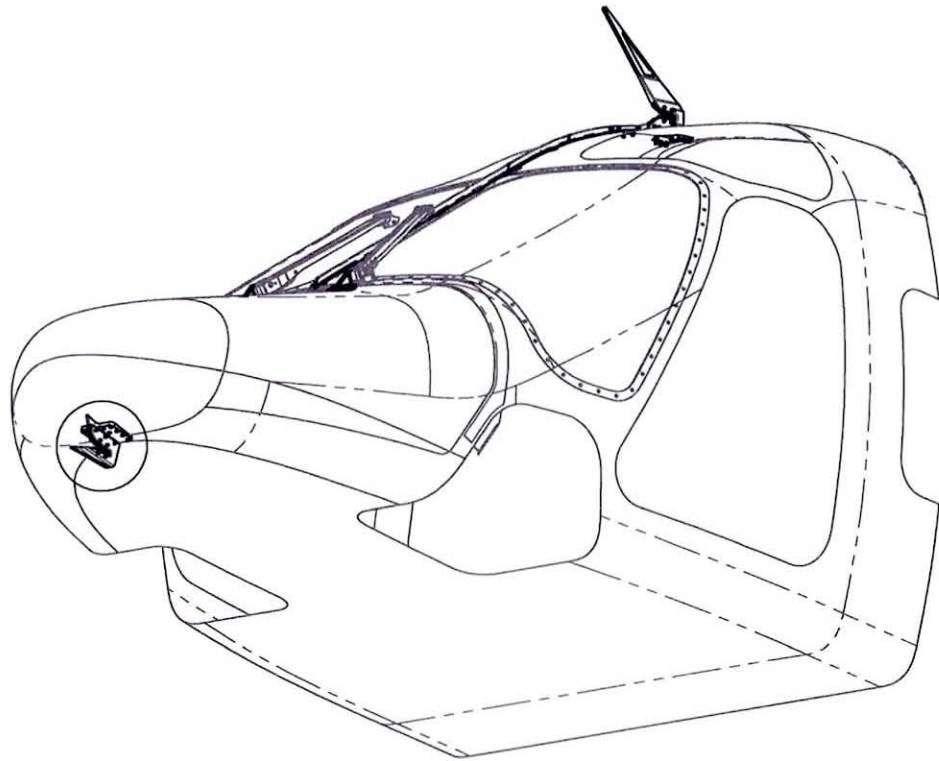
- NOTES:
- 1) ALIGN WITH ROTORCRAFT UPPER CUTTER INSTALLATION HOLES.
 - 2) PREPARE HOLE FOR ELECTRICAL BONDING TO AIRCRAFT WHERE INDICATED BY 2
 - 3) COAT FAYING SURFACES OF KIT WITH PR-1425 CLASS B SEALANT OR EQUIVALENT AND LOCATE ON HELICOPTER.
 - 4) WET INSTALL SCREW (1 PL) USING PR-1764 CLASS B OR EQUIVALENT ELECTRICALLY CONDUCTIVE SEALANT.
 - 5) WET INSTALL REMAINING FASTENERS (7 PL) USING PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 6) TORQUE NUTS TO 50-70 in•lbs (5.6-7.9 N•m).
 - 7) FILLET SEAL AND CLOSE GAPS BETWEEN COMPONENTS AND HELICOPTER WITH PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 8) CLEAN OFF EXCESS SEALANT.
 - 9) AFTER INSTALLATION, PAINT ALL COMPONENTS TO MATCH HELICOPTER PAINT SCHEME.
 - 10) FASTENER HARDWARE SUPPLIED BY TAI (FASTENERS SHOWN AS REFERENCE ONLY). LONGER OR SHORTER FASTENERS MAY BE USED TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY.

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ECR 493

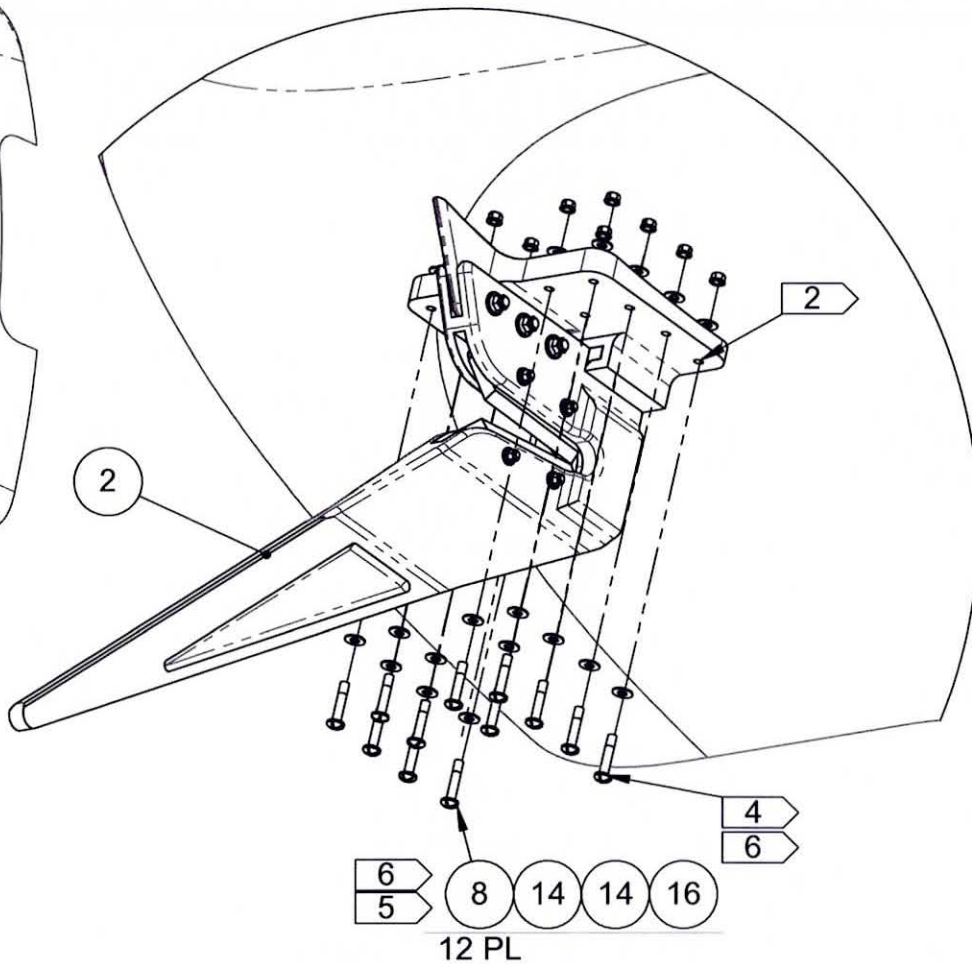
APPROVED

| | | | |
|---|----------|------------------------------------|--------------|
| DESIGN | JMH | DART AEROSPACE | |
| DRAWN | RF | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | SAD | DRAWING NO. | REV. D |
| MFG. APPR. | JFS | IIN-DTAI-1038 | SHEET 2 OF 6 |
| APPROVED | CP | TITLE | SCALE |
| DE APPR. | CP | TLUH CABLE CUTTER SYSTEM | NTS |
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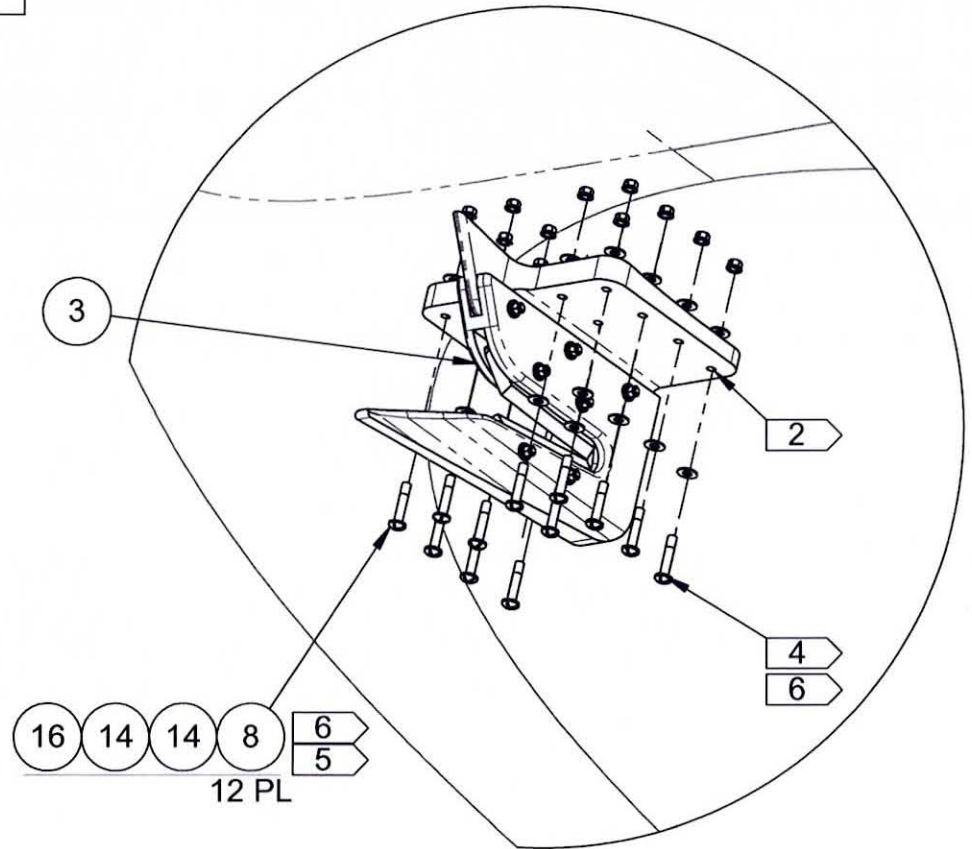
| ITEM | QTY -011 | QTY -013 | DART P/N | TAI P/N | DESCRIPTION |
|------|-------------|-------------|---------------|----------------|--|
| | X | | DTAI-1038-011 | RC95T400100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER |
| | | X | DTAI-1038-013 | RC95T401100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER |
| 2 | 1 | - | DTAI-1038-043 | RC95T400240VN | LOWER CUTTER KIT, LONG |
| 3 | - | 1 | DTAI-1038-045 | RC95T402240VN | LOWER CUTTER KIT, SHORT |
| 8 | 12 | 12 | NAS1133E11P | N/A | SCREW, MACHINE-PAN HEAD, OFFSET CRUCIFORM |
| 14 | 24 | 24 | NAS1149C0332R | N/A | WASHER |
| 16 | 12 | 12 | MS21042L3 | N/A | NUT, SELF-LOCKING |



DTAI-1038-043/-045 LOWER CUTTER KIT LOCATION
(DTAI-1038-045 SHOWN)



DTAI-1038-043 LOWER CUTTER KIT, LONG
EXPLODED ASSEMBLY VIEW



DTAI-1038-045 LOWER CUTTER KIT, SHORT
EXPLODED ASSEMBLY VIEW

- NOTES:**
- 1) ALIGN WITH ROTORCRAFT LOWER CUTTER INSTALLATION HOLES.
 - 2) PREPARE HOLE FOR ELECTRICAL BONDING TO AIRCRAFT WHERE INDICATED BY 2
 - 3) COAT FAYING SURFACES OF KIT WITH PR-1425 CLASS B SEALANT OR EQUIVALENT AND LOCATE ON HELICOPTER.
 - 4) WET INSTALL SCREW (1 PL) USING PR-1764 CLASS B OR EQUIVALENT ELECTRICALLY CONDUCTIVE SEALANT.
 - 5) WET INSTALL REMAINING FASTENERS (11 PL) USING PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 6) TORQUE NUTS TO 25-30 in•lbs (2.82-3.39 N•m).
 - 7) FILLET SEAL AND CLOSE GAPS BETWEEN COMPONENTS AND HELICOPTER WITH PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 8) CLEAN OFF EXCESS SEALANT.
 - 9) AFTER INSTALLATION, PAINT ALL COMPONENTS TO MATCH HELICOPTER PAINT SCHEME.
 - 10) FASTENER HARDWARE SUPPLIED BY TAI (FASTENERS SHOWN AS REFERENCE ONLY). LONGER OR SHORTER FASTENERS MAY BE USED TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY.

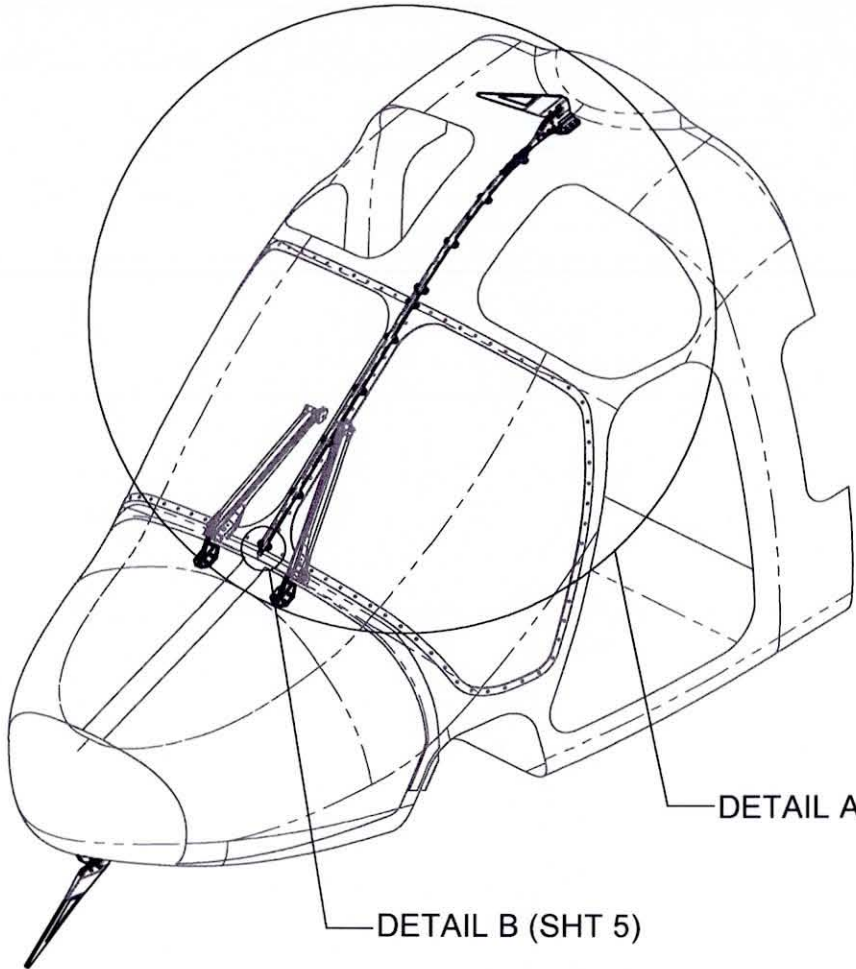
UNDER REVIEW
ECR 493

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| | |
|------------|----------|
| DESIGN | JMH |
| DRAWN | RF |
| CHECKED | SAD |
| MFG. APPR. | JFS |
| APPROVED | CP |
| DE APPR. | CP 47 |
| DATE | 23.03.15 |

| | |
|---|------------------------|
| DART AEROSPACE HAWKESBURY, ONTARIO, CANADA | |
| DRAWING NO. IIN-DTAI-1038 | REV. D SHEET 3 OF 6 |
| TITLE TLUH CABLE CUTTER SYSTEM | SCALE NTS |
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| ITEM | QTY -011 | QTY -013 | DART P/N | TAI P/N | DESCRIPTION |
|------|-------------|-------------|----------------------------|----------------|--|
| | X | | DTAI-1038-011 | RC95T400100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER |
| | | X | DTAI-1038-013 | RC95T401100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER |
| 4 | 1 | 1 | DTAI-1038-047 | RC95T400510VN | WINDSHIELD DEFLECTOR KIT, UPPER |
| 6 | 1 | 1 | DTAI-1038-051 | RC95T400530VN | WINDSHIELD DEFLECTOR KIT, MID |
| 7 | 1 | 1 | DTAI-1038-053 | RC95T400540VN | WINDSHIELD DEFLECTOR KIT, LOWER |
| 9 | 8 | 8 | NAS1133V7A | N/A | SCREW, MACHINE-PAN HEAD, OFFSET CRUCIFORM |
| 12 | 2 | 2 | NAS1134VXXA OR MS27039C4-X | N/A | SCREW, MACHINE PAN-HEAD, OFFSET CRUCIFORM |
| 13 | 10 | 10 | NAS1993C18PT | N/A | BOLT, FLAT, 100° REDUCED HEAD, OFFSET CRUCIFORM |
| 14 | 26 | 26 | NAS1149C0332R | N/A | WASHER |
| 15 | 2 | 2 | NAS1149C0432R | N/A | WASHER |
| 16 | 18 | 18 | MS21042L3 | N/A | NUT, SELF-LOCKING |



DTAI-1038-047/-051/-053 WINDSHIELD DEFLECTOR KIT LOCATION

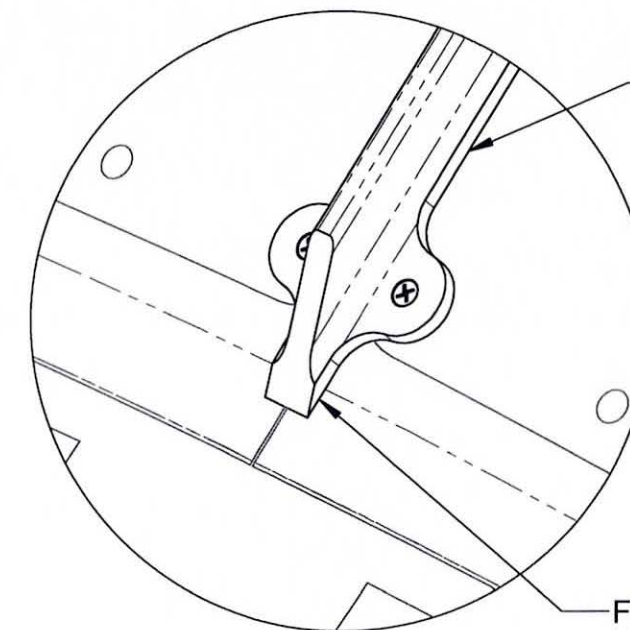
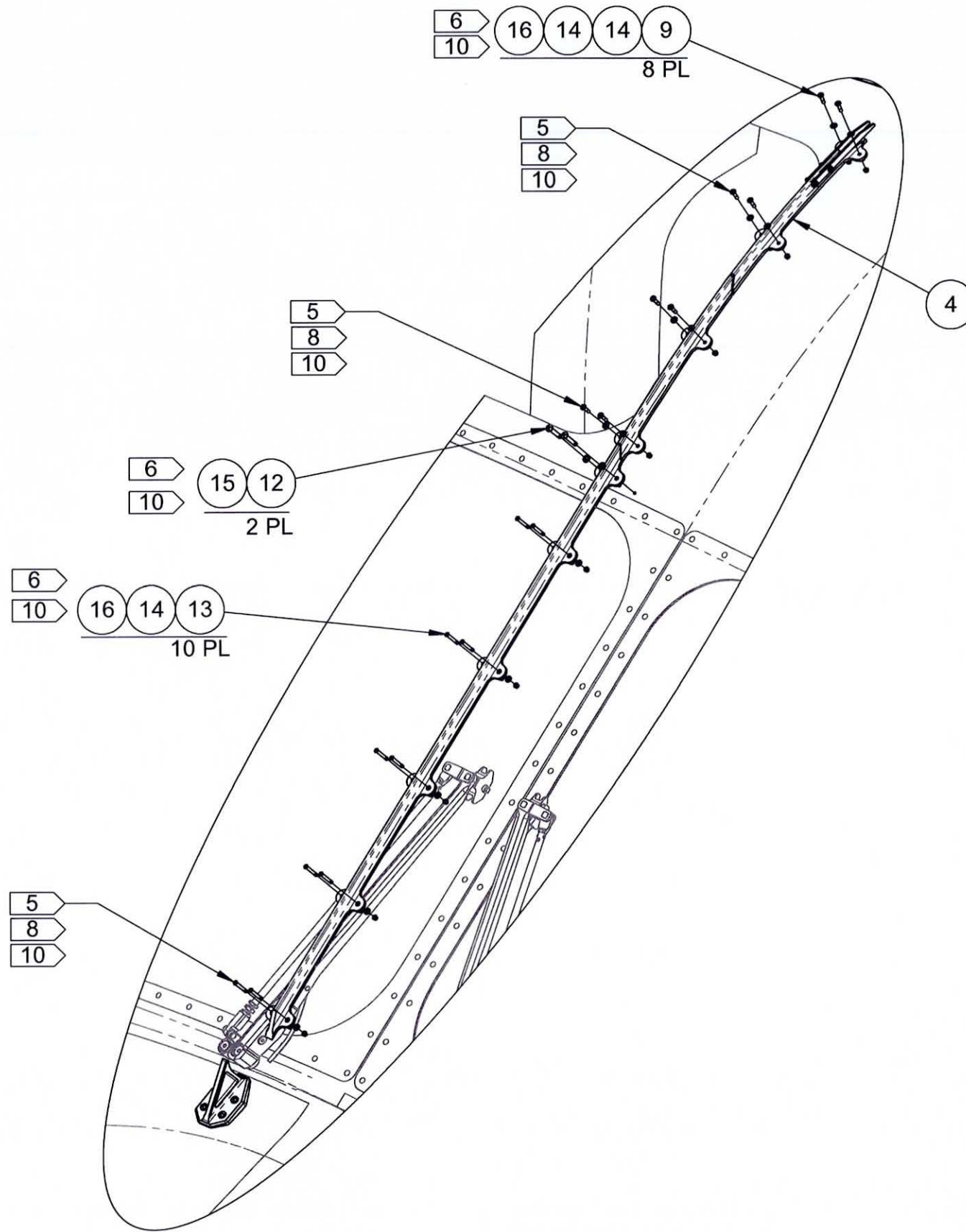
NOTES:

- 1) ALIGN WITH ROTORCRAFT WINDSHIELD DEFLECTOR INSTALLATION HOLES.
- 2) FOR DTAI-1038-053 DEFLECTOR, IT IS ACCEPTABLE TO SLOT THE $\varnothing 0.257"$ (6.6mm) HOLES UP TO 0.10" (2.5mm) CENTER-TO-CENTER IN ANY DIRECTION TO ALLOW HOLES TO ALIGN WITH HOLES IN THE AIRCRAFT.
- 3) FOR DTAI-1038-047/-051/-053 DEFLECTORS, IT IS ACCEPTABLE TO SLOT THE $\varnothing 0.196"$ (5.0mm) HOLES UP TO 0.16" (4.2mm) CENTER-TO- CENTER IN ANY DIRECTION TO ALLOW HOLES TO ALIGN WITH HOLES IN THE AIRCRAFT. FOR DTAI-1038-053 DEFLECTOR, RE-COUTERSINK SLOTTED HOLES $\varnothing 0.320" \times 100^\circ$ ($\varnothing 8.2\text{mm} \times 100^\circ$).
- 4) FOR SLOTTED HOLES, APPLY CHEMICAL FILM (ALODINE 1200 OR 1201) PER MIL-DTL-5541 AND ONE COAT OF MIL-PRF-23377 PRIMER.
- 5) FOR EACH DEFLECTOR, ENSURE QTY(1) HOLE IS PREPARED FOR ELECTRICAL BONDING. AS REQUIRED, REMOVE THE PRIMER AND CHEMICAL FILM COATING FROM INNER DIAMETER OF QTY(1) HOLE PER DEFLECTOR. FOR NON-COUNTERSUNK HOLES IN DTAI-1038-047/-051 WINDSHIELD DEFLECTORS, ADDITIONALLY REMOVE PRIMER AND CHEMICAL FILM TO $\varnothing 3/8"$ ($\varnothing 9\text{mm}$) ON TOP SURFACE. APPLY ELECTRICALLY CONDUCTIVE CHEMICAL FILM (ALODINE 600) PER MIL-DTL-5541. LOCATIONS SHOWN ARE SUGGESTED ONLY.
- 6) COAT FAYING SURFACES OF KIT WITH PR-1425 CLASS B SEALANT OR EQUIVALENT AND LOCATE ON HELICOPTER
- 7) INSTALL USING FASTENER HARDWARE SUPPLIED BY TAI (FASTENERS SHOWN AS REFERENCE ONLY). DASH NUMBER OF "XX" SCREWS TO BE DETERMINED AT INSTALL TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY. FOR ALL FASTENERS, LONGER OR SHORTER FASTENERS MAY BE USED TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY.
- 8) WET INSTALL SCREW (1 PL PER DEFLECTOR) IN HOLE PREPARED FOR ELECTRICAL BONDING USING PR-1764 CLASS B OR EQUIVALENT ELECTRICALLY CONDUCTIVE SEALANT. DO NOT ALLOW PR-1754 SEALANT TO COME IN DIRECT CONTACT WITH WIDSHIELD TRANSPARENCY. DC RESISTANCE BETWEEN EXPOSED DEFLECTOR SURFACE AND AIRCRAFT STRUCTURE SHALL BE LESS THAN 10 MILLIOHMS.
- 9) WET INSTALL REMAINING FASTENERS (17 PL) USING PR-1425 CLASS B SEALANT OR EQUIVALENT.
- 10) TORQUE $3/16"$ (4.7mm) FASTENERS TO 25-30 in•lbs (2.82-3.39 N•m). TORQUE $1/4"$ (6.3mm) FASTENERS TO 50-70 in•lbs (5.6-7.9 N•m).
- 11) FILLET SEAL AND CLOSE GAPS BETWEEN COMPONENTS, HELICOPTER, AND FASTENERS (SLOTTED HOLES) WITH PR-1425 CLASS B SEALANT OR EQUIVALENT.
- 12) CLEAN OFF EXCESS SEALANT.
- 13) AFTER INSTALLATION, PAINT ALL COMPONENTS TO MATCH HELICOPTER PAINT SCHEME

UNDER REVIEW
ECR 493

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| | | | |
|------------|----------|--|--------------|
| DESIGN | JMH | DART AEROSPACE HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | SAD | DRAWING NO. | REV. D |
| MFG. APPR. | JFS | IIN-DTAI-1038 | SHEET 4 OF 6 |
| APPROVED | CP | TITLE | SCALE |
| DE APPR. | CP | TLUH CABLE CUTTER SYSTEM | NTS |
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DTAI-1038-053
DEFLECTOR
REF

FILL ANY GAP UNDER
LOWER END OF
DEFLECTOR WITH
SEALANT

DETAIL B

11

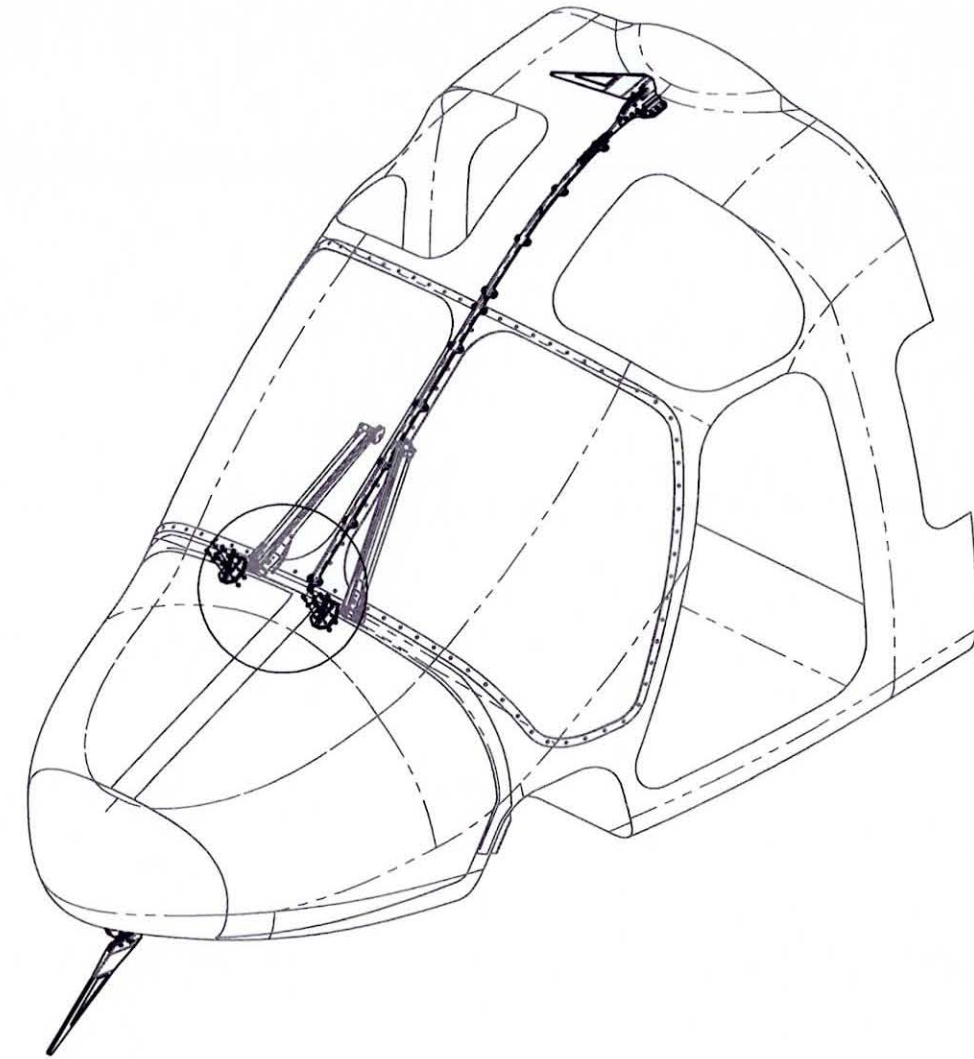
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ECR 493**

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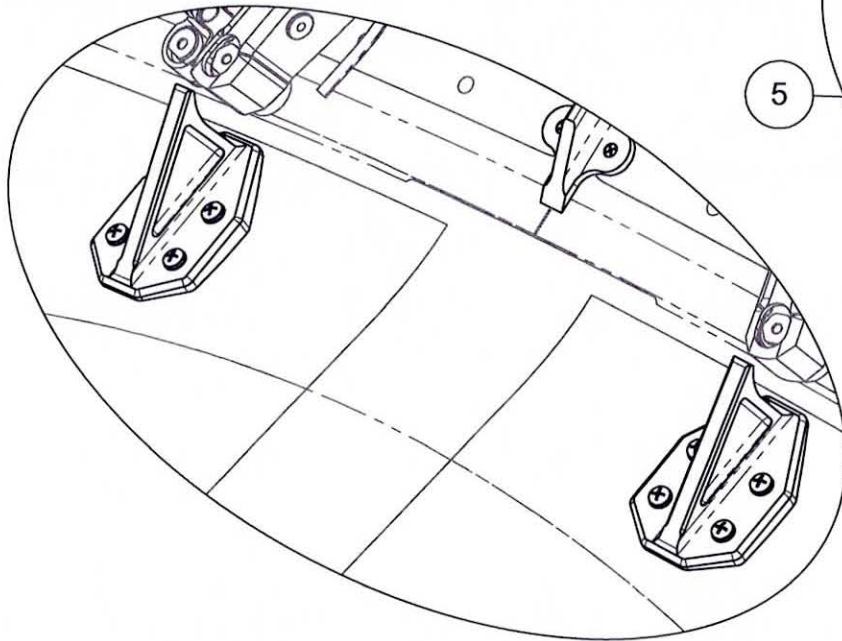
DETAIL A
DTAI-1038-047/051/-053 WINDSHIELD DEFLECTOR KIT
EXPLODED ASSEMBLY VIEW

| | | | |
|------------|----------|---|--------------|
| DESIGN | JMH | DART AEROSPACE | |
| DRAWN | RF | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | SAD | DRAWING NO. | REV. D |
| MFG. APPR. | JFS | IIN-DTAI-1038 | SHEET 5 OF 6 |
| APPROVED | CP | TITLE | SCALE |
| DE APPR. | CP | TLUH CABLE CUTTER SYSTEM | NTS |
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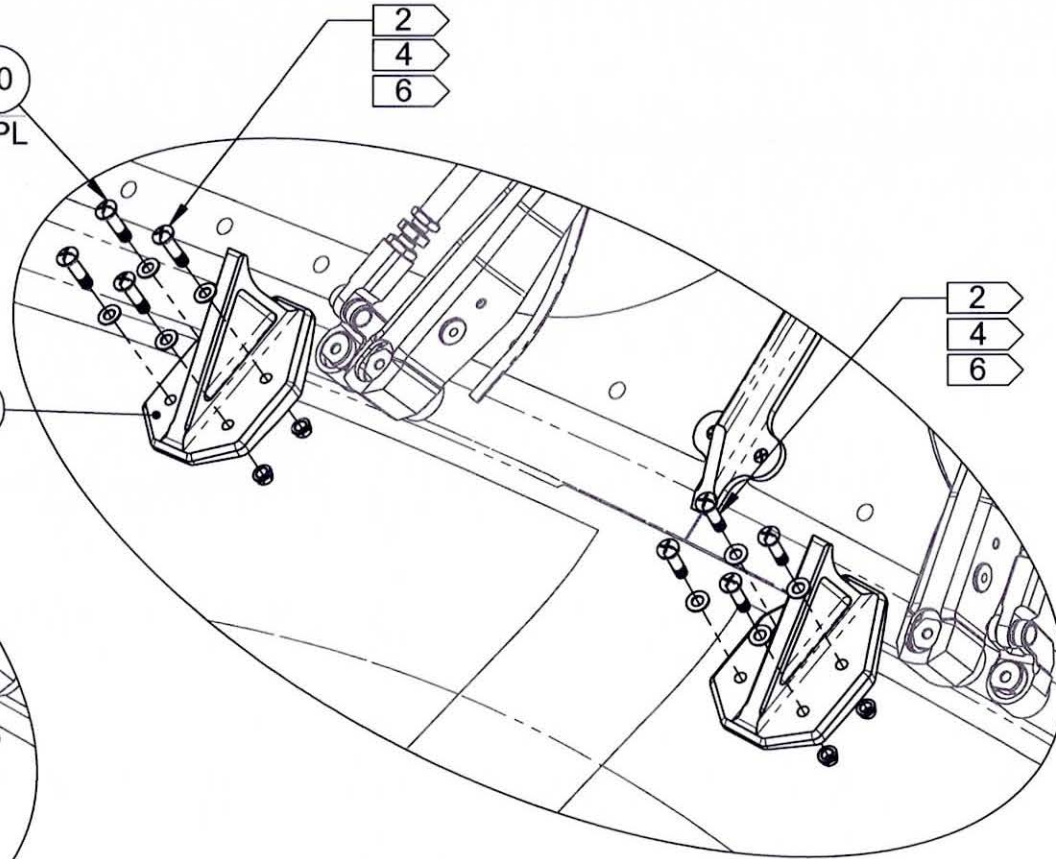
| ITEM | QTY -011 | QTY -013 | DART P/N | TAI P/N | DESCRIPTION |
|------|-------------|-------------|---------------|----------------|---|
| | X | | DTAI-1038-011 | RC95T400100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, LONG LOWER CUTTER |
| | | X | DTAI-1038-013 | RC95T401100000 | CABLE CUTTER SYSTEM INSTALLATION KIT, SHORT LOWER CUTTER |
| 5 | 1 | 1 | DTAI-1038-049 | N/A | WINDSHIELD WIPER POST DEFLECTOR KIT |
| 10 | 8 | 8 | NAS1134V10A | N/A | SCREW, MACHINE-PAN HEAD, CLOSE TOL, SHORT THD, OFFSET CRUCIFORM |
| 15 | 16 | 16 | NAS1149C0432R | N/A | WASHER |
| 17 | 8 | 8 | MS21042L4 | N/A | NUT, SELF-LOCKING |




DTAI-1038-049 WIPER POST DEFLECTOR KIT LOCATION



DTAI-1038-049 WIPER POST DEFLECTOR KIT DETAIL



DTAI-1038-049 WIPER POST DEFLECTOR KIT
EXPLODED ASSEMBLY VIEW

- NOTES:
- 1) ALIGN WITH ROTORCRAFT WIPER POST DEFLECTOR INSTALLATION HOLES.
 - 2) PREPARE HOLE FOR ELECTRICAL BONDING TO AIRCRAFT WHERE INDICATED BY .
 - 3) COAT FAYING SURFACES OF KIT WITH PR-1425 CLASS B SEALANT OR EQUIVALENT AND LOCATE ON HELICOPTER.
 - 4) WET INSTALL SCREW (2 PL) USING PR-1764 CLASS B OR EQUIVALENT ELECTRICALLY CONDUCTIVE SEALANT.
 - 5) WET INSTALL REMAINING FASTENERS (6 PL) USING PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 6) TORQUE FASTENERS TO 50-70 in•lbs (5.6-7.9 N•m).
 - 7) FILLET SEAL AND CLOSE GAPS BETWEEN COMPONENTS AND HELICOPTER WITH PR-1425 CLASS B SEALANT OR EQUIVALENT.
 - 8) CLEAN OFF EXCESS SEALANT.
 - 9) AFTER INSTALLATION, PAINT ALL COMPONENTS TO MATCH HELICOPTER PAINT SCHEME.
 - 10) FASTENER HARDWARE SUPPLIED BY TAI (FASTENERS SHOWN AS REFERENCE ONLY). LONGER OR SHORTER FASTENERS MAY BE USED TO ENSURE A MINIMUM OF 1.5 THREADS IN SAFETY.

UNDER REVIEW
ECR 493

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| | |
|------------|----------|
| DESIGN | JMH |
| DRAWN | RF |
| CHECKED | SAD |
| MFG. APPR. | JFS |
| APPROVED | CP |
| DE APPR. | CP |
| DATE | 23.03.15 |

| | |
|---|--------------|
| DART AEROSPACE | |
| HAWKESBURY, ONTARIO, CANADA | |
| DRAWING NO. | REV. D |
| IIN-DTAI-1038 | SHEET 6 OF 6 |
| TITLE | SCALE |
| TLUH CABLE CUTTER SYSTEM | NTS |
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